

BUGALA, Irena; ZARZYCKI, Janusz

A case of precocious puberty in a 4-year-old boy. Endokr. Pol.
16 no.4:343-346 J1-Ag ' 65.

1. II Klinika Chorob Dzieci AM w Lodzi (Kierownik: prof. dr.
F. Redlich [deceased]) i Katedra i Zaklad Endokrynologii AM w
Lodzi (Kierownik: prof. dr. T. Pawlikowski).

LESZCZYNSKI, Stanislaw; BUGALA, Kazimierz

On the use of carbon dioxide for the insufflation of the fallopian tubes. (Modification of Schultz apparatus). Gyn.polska 31 no.1:57-58 Ja-F '60.

1. Z I Kliniki Poloznictwa i Chorob Kobietych A.M. w Lodzi. Kierownik: prof.dr J. Sieroszewski.
(FALLOPIAN TUBES)
(STERILITY FEMALE ther.)
(CARBON DIOXIDE)

BUGALA, WLADYSLAW.

POLAND / Cultivated Plants. Ornamental plants.

Abs Jour

; Ref Zhur - Biol., No 34873

Author

: Bugala, Wladyslaw.

Inst

: No given
: Magnolia in the Kurnicki Arboretum and Possibility of Ex-
tending the Cultivation of This Plant in Poland.

Title

Orig Pub

: Arboretum korn., 1956 (1957), 2, 45-78

Abstract

: Four types of magnolia (*Magnolia acuminata* L., *M. tripe-*
tala L., *M. obovata* Thunb., and *Magnolia virginiana* L.)
were first introduced in Poland from Hamburg in 1845. Up
to the present day, a few remaining trees of *magnolia*
acuminata have reached a height of 26 m and a diameter
of over 30 cm. The majority of *magnolia* species now grow-
ing in Kurnik were imported in 1925. Their condition is
described. These species are divided into three groups:

Card 1/2

147

11-18-58

Ccountry : POLAND
 Category : Forestry. Dendrology.
 Abs Jour : RZhBiol., No 6, 1959, No 24709
 Author : Bugala, W.
 Inst :
 Title : A Collection of Poplars in the Kurnicky
 Orig Pub : Arboretum. Part II.
 : Arboretum korn., 1956 (1957), 2, 79-116
 Abstract : To the section of black poplars (Aigeiros
 Duby), about 10 species are referred to, out
 of which 8 grow in North America. To the same
 section two European species are
 referred to: the black poplar (Populus nigra
 L.) and the pyramidal or Italian poplar (P.
 pyramidalis Roz.). Poplars of the section Ai-
 geiros are distinguished by rapid growth and
 attain considerable size even at the age of
 Card : 1/3

Country : POLAND
 Category : Forestry. Dendrology. K
 Abs Jour : RZhBiol., No 6, 1959, No 24709
 Author :
 Inst :
 Title :
 Orig Pub :
 Abstract : 30 years. Representatives of this section may be divided into three groups: (1) Eurasian species and varieties; (2) North American species and varieties, and (3) hybrids of the two preceding groups. In Kurnicky arboretum, about 25 species, varieties and hybrids of this section are represented. A detailed botanical, geographical and morphologic-systematic descrip-
 Card : 2/3

Country : POLAND K
Category : Forestry. Dendrology.
Abs Jour : RZhBiol., No 6, 1959, No 24709
Author :
Inst :
Title :
Orig Pub :
Abstract : tion of them is presented. The problem of the
complicated systematics of the poplars is exa-
mined and cases of incorrect determination of
hybrids and varieties of the poplars are indi-
cated. -- L. A. Knyazev
For Part I, see RZhBiol., 1957, 73546

Card : 3/3

POLAND/Cultivated Plants - Decorative.

M-9

Abs Jour : Ref Zhur - Biol., No 7, 1958, 30124

Author : Browicz, K., Dugala, W.

Inst : -

Title : Rare Trees and Shrubs in the Kornicki Arboretum.

Orig Pub : Arboretum korn., 1956, (1957), 2, 127-144 (Polish; res.
Eng. Russ.)

Abstract : The article is a continuation of the list of rare trees
and shrubs which are growing in the Kornicki Arboretum,
published in the first vol. of the same publication.
Brief characterizations are given of seven species with
an indication of their origin, cold hardiness, drought
resistance, flowering times and fruit-bearing periods,
and their decorative features.

Card 1/1

BUGALSKA, Maria, mgr

Export of the Oswiecim Chemical Works in the years 1960-
1963. Chemik 16 [i.e. 17] no. 4:119-121 Ap '64.

BUGAR, Janosne

Trade unions on the general and complete disarmament; the 20th session of the Executive Committee of the World Federation of Trade unions.
Munka 10 no.1:30-31 Ja '60.

1. Szakszervezetek Orszagos Tanacsa titkara, es "Munka" szerkeszto bizottsagi tagja.

BUGAR, Janosne

On laborer-artist relationships. Munka 11 no.1:6-8 Ja '61.

1. Szakszervezetek Orszagos Tanacsa titkara, es "Munka" szerkeszto bizottsagi tagja.

(Hungary—Labor and laboring classes)
(Artists, Hungarian)

BUGAR, Janosne

Our last year's work and the conditions for our further advancement. Munka 9 no.1:13-14 Ja '59.

1. Szakszervezetek Országos Tanácsa titkara, és "Munka" szerkesztő bizottságának tagja.

BUGAR, Janosne

On the level of leadership and the cultural progress of leaders.
Munka 12 no.10:6-7 0 '62.

1. Szakszervezetek Országos Tanácsa titkara, és "Munka" szerkesz-
to bizottságnak vezetője.

BUGAR, Janosna

The congress of French Trade Unions in the spirit of militant
unity. Munka 13 no.7:3-5 J1 '63.

1. Szakszervezetek Országos Tanácsa titkara; "Munka" szerkeszto
bizottsaga vezetoje.

BUGAR, Janosne

Educational work of trade unions. Munka 13 no.11:6-14 N '63.

1. Szakszervezetek Országos Tanácsa titkara; "Munka" szerkeszto bizottsagi vezetője.

BUGAR, Janosne

Role of trade unions in agitation. Munka 8 no.10:12 0 '58.

BUGAR, Katalin (Mrs)

Program for the advancement of the Hungarian people. Hung TU no.10:
1-2 0 '62.

1. Secretary of the Central Council of Hungarian Trade Unions.

BUGAR, Katalin

Education, the principal method of trade union work.
Hung TU no.7/":2-4 J1-Ag'63.

PROCESSES AND PROPERTIES INDEX																									
Appearance of vestibular symptoms after a penicillin treatment. Károly Bugár-Mészáros. <i>Orvosi Lapok</i> 4, 400-500 (1948).—During a treatment against endocarditis and myocarditis a girl aged 14 received intramuscularly a total of 30.5 million (1 million daily) units of penicillin. Severe nausea, nystagmus, and post-pointing symptoms appeared as secondary effects which disappeared within a month. It is assumed that penicillin exerted its effects on the vestibular system through an allergic mechanism. István Fényes																									
ASH-SIA METALLURGICAL LITERATURE CLASSIFICATION																									

BUGAR-MESZAROS, K.; OKOS, G.

Studies on the static arterial tonus under normal and pathological conditions. ~~Magy.~~ *belorv. arch.* 5 no.2:49-62 June 1952. (QIML 25:5)

1. Doctors. 2. First Internal Department (Head Physician -- Prof. Dr. Karoly Bugar-Meszaros), Istvan Hospital.

BUGAR-MESZAROS, K.; OKOS, G.

Studies on changes of static arterial tone in hypertonics. Magy.
belorv. arch. 5 no.4:155-160 Dec 1952. (CLML 25:5)

1. Doctors. 2. First Internal Department (Head Physician -- Prof.
Dr. Karoly Bugar-Meszáros), Istvan Hospital.

BUGAR-MESZAROS, K.

Treatment of polyarthrititis with sodium thiosulfate. Orv. hetil.
93 no. 45:1293-1295 9 Nov 1952. (CIML 24:1)

1. Doctor. 2. First Internal Department (Head Physician -- Dr.
Karoly Bugar-Meszaros), Istvan Hospital.

BUGAR-MESZAROS, K.; OKOS, G.

Study of the effect of heat on arterioles by a new measuring method.
Orv. hetil. 93 no.51:1447-1451 21 Dec 1952. (CLML 24:2)

1. Doctors. 2. First Internal Department (Head Physician -- Dr. Karoly Bugar-Meszáros), Istvan Hospital.

BUGAR-MESZAROS, K.; OKOS, G.
~~XXXXXXXXXXXX~~

Static variations of arterial tone under normal conditions and in
vascular disease. Acta med. hung. 4 no. 1:35-64 1953. (CML 24:2)

1. Of the First Internal Department of Istvan Hospital, Budapest.

BUGAR-MESZAROS K. and OKOS G. I. inn. Abt., Istvan-Krankenh., Budapest. Untersuchung der statischen Tonusveränderung der Arterien bei Hypertonien Investigations on changes of the static arterial tone in hypertension Acta med. Acad. Scient. hung. (Budapest) 1953, 4/2 (177-190) Graphs 2 Tables 7

In essential hypertension, the oscillometric index of the legs decreases in the ventricular position just as in persons with intact circulation. This 'positive static reaction' is lost in elasticity hypertension and arteriosclerosis without high blood pressure: the oscillations remain unchanged or increase (paradoxical reaction). In hemiplegia, the reaction is slighter in the diseased extremity.

Gottsegen - Budapest

SO: EXCERPTA MEDICA, Vol. 8, No. 3, Section VI, March 1954

BUGAR-MESZAROS, K.; OKOS, G.; KOROSY, S.

Angiological studies on neuroangiosis cruris hemosiderosa. Acta
med. hung. 6 no.1-2:97-105 1954.

1. Service de medicine interne No. I. de l'Hopital Istvan, Budapest
(LEG, blood supply
neuroangiosis cruris hemosiderosa)

BUGAR-MESZAROS, Karoly, dr; OKOS, Gizella, dr.

Modifications of oscillometric variations of blood pressure in cold-pressor test. ~~Magy~~ *belorv. arch.* 7 no.3:83-86 June 54.

1. Iz Istvan kozhaz I. Belosztalyanak (foorvos: Bugar-Meszaros Karoly dr) kozlemenye.

(BLOOD PRESSURE,

cold-pressor test)

(COLD, effects,

on blood pressure, cold-pressor test)

BUGAR-MESZAROS, Karoly, dr.

Measurement of skin temperature in farm workers. *Nepegeszségügy* 35
no.7:179-181 July 54.

1. Közlemény az Istvan-korház (igazgató Vikiel János dr.) I.
belsőstágyáról (először Bugar-Mészáros, Karoly, dr.)

(AGRICULTURE

farm workers skin temperature measurement for work
efficiency)

(INDUSTRIAL HYGIENE

farm workers skin temperature measurement for work
efficiency)

(SKIN, physiology

temperature measurement in farm workers)

(TEMPERATURE

skin temperature measurement in farm workers)

BUGAR-MESZAROS, K., Dr.

On the therapy of peripheral vascular diseases. Ther. hung. no.2:
3-8 1956.

1. From the 1st Department of Medicine, Istvan Hospital (Head-
Physician: Dr. Karoly Bugar-Meszaros), Budapest.
(VASCULAR DISEASES, PERIPHERAL, ther.)

BUGAR-MESZAROS, Karoly, dr.; OKOS, Gizella, dr.

The peripheral circulation in hypotension. Magy. belorv.
arch. 9 no.1:30-32 Feb 56.

1. Az Istvan korhaz I. belosztalyanak (foorvos:
Bugar-Meszaros, Karoly dr.) kozl.
 (HYPOTENSION, physiol.
 peripheral circ. (Hun))
 (BLOOD CIRCULATION
 peripheral, in hypotension. (Hun))

BUGÁR-MÉSZÁROS K.

EXCERPTA MEDICA Soc.18 Vol.1/7 Cardiovascular July 57

1836. BUGÁR-MÉSZÁROS K. and OKOS G. 1. Inn. Abt., István-Krankenh., Budapest. Über das Verhalten der Oszillationen während des Verlaufes des 'cold pressor test' *Oscillatory changes in the course of the cold pressor test* Z. ges. inn. Med.1956, 11/13 (602—605) Graphs 4 Tables 1

Studies were made with Boulette's tensiograph, which allows one to take an oscillogram in less than one min., so that the cold reaction which declines in 1-2 min. can be registered simultaneously with the blood pressure. 100 individuals were examined, 20 with normal circulation, 20 with essential hypertension, 20 with elastic hypertonus and 10 with arteriosclerosis without hypertension. When the circulation was

1836

CONT.

normal but hypertension was present the oscillations were diminished. This proves that not only angiospasm of small vessels are induced by the cold stimulus, but that also large vessels of the extremities participate. In individuals with elastic hypertonus and with arteriosclerosis without hypertension the oscillations were generally increased, indicating a lower elasticity or adaptability of the arteries. These facts may be of use for the diagnosis of early arteriosclerosis. It may also be concluded that increase in blood pressure can occur without increase in tonus of the big arteries of the extremities.

Kroonenberg - Amsterdam.

BUGAR-MESZAROS, K.; OKOS, G.; SAS, V.

Endoangiitis (thromboangiitis) obliterans on the basis of 300 cases. Acta med. hung. 12 no.3-4:271-283 1958.

1. I. Innere Abteilung des Istvan-Krankenhauses, Budapest.
(THROMBOANGIITIS OBLITERANS, statistics
(Ger))

BUGAR-MESZAROS, Karoly, Dr.; OKOS, Gizella, Dr.; SAS, Vilmos, Dr.

Data on the pathological picture of endoangiitis (thromboangiitis) obliterans based on observations on 300 patients. Orv. hetil. 90 no.47: 1627-1633 23 Nov 58.

1. A Fovarosi Istvan Korhaz I. Belosztalyanak (foorvos: Bugar-Meszaros Karoly dr.) kozlemenye.

(THROMBOANGIITIS OBLITERANS, statist.
clin. statist. (Hun))

BUGAR-MESZAROS, Karoly, dr.

Vascular aspects of the pathogenesis of ulcus cruris. *Borogygy.*
venerszemle 35 no.5:205-214 0 '59.

1. Az Istvan korhaz I. belosztalyanak (Forvos: Bugar-Meszaros
Karoly dr.) kozlemenye.

(VARICOSE ULCER etiol)

< BUGAR-MESZAROS, K.; PRAZNOWSKY, M.

Anticoagulants in myocardial infarction. Acta med. hung. 16 no.3:
237-245 '60.

1. 1st Department of Medicine (Head: K. Bugar-Meszaros), Istvan
Hospital, Budapest.

(MYOCARDIAL INFARCT ther)

(ANTICOAGULANTS ther)

BUGAR-MESZAROS, K.; OKOS, G.

Anticoagulant therapy of phlebothrombosis and thrombophlebitis.
Acta med.hung.16 no.3:313-317 '60.

1. 1st Department of Medicine (Head: K.Bugar-Meszaros), Istvan
Hospital, Budapest.

(ANTICOAGULANTS ther)

(THROMBOPHLEBITIS ther)

BUGAR-MESZAROS, K.; KOVACS, F.; FONO, J.

Anticoagulants in cerebral thrombosis and embolism. Acta med.hung.
16 no.3:329-336 '60.

1. 1st Department of Medicine (Head: K.Bugar-Meszaros), Istvan
Hospital, Budapest.

(ANTICOAGULANTS ther)

(CEREBRAL EMBOLISM AND THROMBOSIS ther)

BUGAR-MESZAROS, Karoly, dr.; POPPEL, Alfonz, dr.

Data on the pathogenesis of the arterial disease of diabetes.
Orv.hetil. 101 no.2:37-45 Ja '60.

1. Budapesti Istvan korhaz, 'r. Belosztaly.
(DIABETES MELLITUS compl.)
(VASCULAR DISEASES, PERIPHERAL etiol.)

BUGAR-MESZAROS, Karoly, dr.; KOVACS, Ferenc, dr.; FONO, Jozsef, dr.

On anticoagulant therapy of cerebral embolism and thrombosis.
Orv. hetil. 101 no.14:478-481 3 Ap '60.

1. Fovarosí István Korhaz I. Belosztaly.
(CEREBRAL EMBOLISM AND THROMBOSIS ther.)
(ANTICOAGULANTS ther.)

BUGAR-MESZAROS, Karoly, dr.; PRAZNOVSZKY, Marta, dr.

Anticoagulant therapy of myocardial infarcts and other heart diseases. Orv. hetil. 101 no.26:901-907 26 Je '60.

1. Budapesti Istvan korhaz, I. belosztaly.
(ANTICOAGULANTS ther.)
(MYOCARDIAL INFARCT ther.)
(HEART DISEASES ther.)

EUGAR-MESZAROS, Karoly, dr.; OKOS, Gizella, dr.

Anticoagulant therapy of phlebothrombosis and thrombophlebitis.
Orv.hetil. 102 no.1:14-16 1 Ja '61.

1. Fovarosi Istvan Korhaz, I. Belosztaly.
(THROMBOPHLEBITIS ther)
(ANTICOAGULANTS ther)

BUGAR-MESZAROS, K.; POPPEL, A.

A reply to critical remarks of Dr. V. Paeslack, "Contribution to the Pathogenesis of Arterial Diseases in Diabetics". Acta med. acad. sci. Hung. 18 no.1:135-138 '62.

(DIABETES MELLITUS compl)
(CARDIOVASCULAR DISEASES etiol)

BUGAR-MESZAROS, Karoly, dr.; CSERVENY, Melitta, dr.

On fibrinolysin therapy. Orv. hetil. 103 no.20:913-917 20 My '62.

1. Fovarosí István Korház, I Belosztaly.

(FIBRINOLYSIN ther) (THROMBOSIS ther)

BARTA, Lajos, dr.; BUGAR-MESZAROS, Karoly, dr.; OKOS, Gizella, dr.;
ROSTA, Janos, dr.

Vascular examinations on diabetic children. Orv. hetil. 103 no.40:
1883-1886 7 0 '62,

1. Budapesti Orvostudományi Egyetem, I. Gyermekklinika, Fovarosí Istvan
Korhaz, I. Belosztaly es Budapesti Orvostudományi Egyetem, IV. Belklinika.
(DIABETES MELLITUS, JUVENILE) (CAPILLARIES)

HUNGARY

BUCIAR-MESZAROS, Karoly, Dr., FONO, Jozsef, Dr.; Istvan Hospital of Budapest, First Internal Medicine Department (Fovarosí Istvan Kórház, I. Belcsztyaly)

"Anticoagulant Treatment of Arterial Thrombosis and Embolism of the Extremities."

Budapest, Orvosi Hetilap, Vol 103, No 45, 11 Nov 62, pages 2126-2129.

Abstract: [Authors' summary modified] The authors report on anticoagulant -- mainly coumarin -- treatment of 50 cases of thrombosis and 40 cases of embolism of the limbs. 20 received intraarterial heparin. The report shows considerable improvement in 70 cases, a much higher percentage than in the control group. In the absence of contraindications, they recommend anticoagulant therapy for arterial thrombosis and embolism of the extremities.

[Of 18 references about half are Hungarian, half Western]

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I/1

BARTA, L.; BUGAR-MESZAROS, K.; OKOS, Gizella; ROSTA, J.

On the effect of diabetes mellitus in childhood on the vascular system. Acta paediat. acad. sci. Hung. 3 no.1:71-79 '62.

1. I. Kinderklinik (Direktor: Prof. Dr.P. Gegesi Kiss) der Medizinischen Universität Budapest, I. Medizinische Abteilung (Chefarzt: Dr. K. Bugar-Meszaros) des Hauptstadtischen Istvan-Krankenhauses, und IV. Medizinische Klinik (Direktor: Prof. Dr. Gy. Gottsegen) der Medizinischen Universität Budapest.

(DIABETES MELLITUS in inf & child) (OSCILLOMETRY in inf & child)
(BLOOD VESSELS pathology)

BUGAR-MESZAROS, K.; CSERVENY, M.

Data concerning fibrinolysin therapy. Acta med. Hung 18 no.3:335-343
'62.

1. Ist Department of Medicine (Head: K. Bugar-Meszaros), Istvan
Hospital, Budapest.

(FIBRINOLYSIN) (THROMBOPHLEBITIS)
(CEREBRAL EMBOLISM & THROMBOSIS) (EMBOLISM) (THROMBOSIS)

BUGAR-MESZAROS, Karoly, dr.

Intra-arterial administration of methylpyrrolidino-oxytetracycline
in cases of gangrene of the extremities. Orv. hetil. 103 no.31:1456-
1457 5 Ag '62.

1. Fovarosi Istvan Korhaz, I. Belosztaly.
(OXYTETRACYCLINE ther) (GANGRENE ther)
(PYRROLIDONES ther)

BUGAR-MESZAROS, Karoly, dr.; FONO, Jozsef, dr.

Anticoagulant therapy of thrombosis and embolism of arteries of the extremities. Orv. hetil. 103 no.45:2127-2129 11 N '62.

1. Fovarosí István Korhaz, I. Belosztaly.

(THROMBOSIS) (EMBOLISM) (ANTICOAGULANTS) (HEPARIN)

BUGAR-MESZAROS, K., dr.

Intra-arterial methylpyrrolidino-oxytetracyclin treatment in cases of extremital gangrene. Ther. hung. 11 no.1:31-32 '63.

1. First Department of Medicine, Istvan Municipal Hospital, Budapest.
(DIABETIC ANGIOPATHIES) (THROMBOANGITIS OBLITERANS)
(ARTERIOSCLEROSIS) (GANGRENE) (LEG) (OXYTETRACYCLINE)

BUGAR-MESZAROS, K.; FONO, J.

Anticoagulant therapy of arterial thrombosis and embolism in the limbs.
Acta med. acad. sci. hung. 19 no.1:43-50 1963.

1. First Department of Medicine, Istvan Hospital, Budapest.
(EMBOLISM) (THROMBOSIS) (ETHYL BISCOUMACETATE)
(ACENOCOUMAROL)

BUGAR-MESZAROS, Karoly, dr.

Experiences abroad and in Hungary in the anticoagulant treatment
of deep vein thrombosis and thrombophlebitis. Orv. hetil.
105 22 N '64.

1. Fovarosí Tanács, Istvári Korház, I. Belosztály.

BUGAR-MESZAROS, Karoly, dr.; KUSZTOS, Denes, dr.

Our therapeutic results with the Syncardon machine. Orv. Hetil.
105 no.52:2467-2470 27 D '64.

1. Foverosi Istvan Korhaz I. Belosztaly (foorvos: Bugar-
Meszaros Karly dr.).

BUGAR-MESZAROS, Karoly, dr.; BERECZKY, Mihaly, dr.

Data to the clinical picture of arteriosclerosis obliterans
based on the observation of 1071 patients. Orv. hetil. 106
no.7:297-300 14 F '65

1. Fovaresi Istvan Korhaz, I.Belosztaly.

BUGAR-MESZAROS, Karoly, dr.; BERECHKY, Mihaly, dr.

Fibrinolysin therapy with high doses. Orv. hetil. 106 no.44:
2085-2088 31 0 '65

1. Istvan Korhaz, I. Belosztaly.

HUNGARY

BUGAR-MESZAROS, Karoly, Dr, FONO, Jozsef, Dr, BERECZKY, Mihaly, Dr; Capital City Istvan Hospital, I. Medical Ward (chief physician: BUGAR-MESZAROS, Mihaly, Dr) (Fovarosi Istvan Korhaz, I. Belosztaly), Budapest.

"Data on the Prophylaxis of the Postthrombotic Syndrome."

Budapest, Orvosi Hetilap, Vol 107, No 38, 18 Sep 66, pages 1805-1807.

Abstract: [Authors' Hungarian summary] The fate of 197 patients suffering from deep venous thrombosis or thrombophlebitis was followed for years after the acute phase. It was found that postthrombotic syndrome developed in three-fourth of the patients who received the traditional treatment within the average observation time of 43 months, while only 45 per cent of those given anticoagulant treatment developed the syndrome within an average of 41.5 months. The latter statistic is also considered to be high and is attributed to the fact that three-fourth of the patients were transferred to the ward late, after about the third day of the acute disease. The importance of early introduction of an anticoagulant treatment is emphasized for the prevention of the postthrombotic syndrome. From the aspect of preventing recurrences, very favorable results were achieved by the prolonged use of anticoagulants. With respect to prophylaxis, attention is called also to the effectiveness of intracutaneous heparin treatment in the case of thrombophlebitis of superficial veins and to the necessity of avoiding the sclerotizing treatment of varices. 6 Hungarian, 8 Western references.

1/1

BUGARCHIEVA, V.; TODOROVA, B.

Composition of certain nutrient elements in the beech and
chestnut forest litter. Izv Inst "Nikola Pushkarov"
no.5:237-241 '62.

ALEKSEYEV, N.S.; BELYAYEV, A.P.; BUGAREV, L.A.; BUTOMO, D.G.; VASIL'YEV, Z.V.;
VERIGIN, V.N.; VOROB'YEV, G.M.; GAYLIT, A.A.; GOL'SHTEYN, P.M.;
GOKHSHTEYN, M.B.; ZHOLOBOV, V.V.; ZEDIN, N.N.; IVANOV-SKOBLIKOV, N.I.;
KUTEPOV, Ya.V.; LANDIKHOV, A.D.; MARAYEV, S.Ye.; MILLER, L.Ye.;
OL'KHOV, N.P.; PERLIN, I.L.; POSTNIKOV, N.N.; ROZOV, M.N.; CHERNYAK, S.N.;
CHUPRAKOV, V.Ya.; TSETER, Ya.A.

Vladimir Oskarovich Gagen-Torn; obituary. TSvet.met. 27 no.5:67-68
S-O '54. (MIRA 10:10)

(Gagen-Torn, Vladimir Oskarovich, 1888-1954)

BAKAYIN, V.P.; BUBOK, K.G.; ~~BUGAREV, L.A.~~; BUNIN, A.I.; VOROB'YEV, K.V.
DROZDOV, V.V.; DOROKHOV, M.S.; ZUBRILOV, S.V.; IGnat'yev, L.A.
KARGOPOLOV, I.G.; KLUSHIN, D.N.; KOMAROV, A.M.; KURILOV, M.S.;
LOMAKO, P.F.; MIKULENKO, A.S.; MIKHAYLOV, M.M.; NEMTINOV, B.A.;
OL'KHOV, N.P.; OSIPOVA, T.V.; PAKHOMOV, Ya.D.; PIK SIN, I.N.;
PODCHAYNOV, S.F.; PUSTYL'NIK, I.I.; ROZHKOV, I.S.; SAVARI, Ye.A.;
SEMYNIN, A.P.; SPIVAKOV, Ya.N.; STRIGIN, I.A.; SUSHKINTSOV, S.N.;
SYCHEV, P.S.; TROITSKIY, A.V.; USHAKOV, K.I.; KHARLAMOV, A.Ye.;
SHEMYAKIN, N.I.

Nikolai Konstantinovich Chaplygin. TSvet. met. 28 no.2:57-58
Mr-Ap '55. (MIRA 10:10)
(Chaplygin, Nikolai Konstantinovich, 1911-1955)

AUTHOR: Bugarev, L.^[A] and Chuprakov, V.

136-5-1/14

TITLE: Twenty-five years of Soviet Aluminium. (25 let Sovetskogo alyuminiya)

PERIODICAL: "Tsvetnye Metally" (Non-ferrous Metals), 1957, No.5, pp. 1 - 8 (U.S.S.R.)

ABSTRACT: In 1932, the first commercial aluminium was produced in the Soviet Union. The events leading up to this and the subsequent course of the aluminium industry and related activities in the U.S.S.R. are discussed in the present article. Many people connected with the development of the aluminium industry in the U.S.S.R. are mentioned by name, but no references are given. Figures on energy requirements, production costs and productivities are given. The development of aluminium-remelting (a 5-fold increase from 1945 to 1955) is briefly mentioned: the quality of this product will soon equal that of primary aluminium. The article concludes with a brief review of future plans, which, in the sixth Five Year Plan, are to be based on the utilisation of hydro-electric power from Eastern Siberian rivers, the Kuzbass and Eastern Siberian fuel resources and Turgayskiy-deposit bauxites as well as new sources of alumina-yielding raw materials (alunites from Azerbaydzhan and Krasnoyarsk nephelites). Equipment to be installed

Card 1/2

Twenty-five years of Soviet aluminium. (Cont.) 136-5-1/14
in plant built in the sixth Five Year Plan will include rotary
furnaces 4.5 - 5 m in diameter and 100 - 150 m long, tube
mills 3.2 m in diameter and 15 m long and high-current mercury
rectifiers. The use of fluidisation techniques are to be used
for the treatment of ores. A method for the preparation of
aluminium alloys directly from concentrates by reduction in
electric furnaces is also to be adopted.

AVAILABLE:

Card 2/2

BUGAREV, L.A.; ZHIL'ZNOV, A.I.; SHINDEL'MAN, R.I.

Improving the process of aluminum electrolysis. TSvet. met. 31
no.4:49-52 Ap '58. (MIRA 11:5)

1. Gosudarstvennyy nauchno-tekhnicheskii Komitet Soveta Ministrov
RSFSR.

(Aluminum—Electrometallurgy)

BUGAREV, L.A.

Improvement of work conditions in the electrolytic production of
aluminum. TSvet. met. 34 no.5:37-43 My '61. (MIRA 14:5)
(Aluminum---Electrometallurgy)
(Electrometallurgy---Hygienic aspects)

BUGAREV, L.A.

Improvement of working conditions in the electrolytic production
of aluminum. Analele metalurgie 16 no.2:88-94 Ap-Je '62.

SKOROV, V.A.; STEPANOV, I.S.; SHAKHNAZAROV, A.K., inzhener-metallurg, pensioner; PETROV, V.I., Geroy Sotsialisticheskogo Truda; BARYSHNIKOV, I.F., starshiy inzhener; BUGAREV, L.A.; LAKERNIK, M.M., kand.tekhn. nauk; SHEYN, Ya.P.; MOLCHANOV, A.A.

The greatest objective of our life. TSvet.met. 34 no.10:1-10
0 '61. (MIRA 14:10)

1. Glavnyy inzhener Skopinskogo zavoda "TSvetmet" (for Skorov).
 2. Zamestitel' predsedatelya Mezhdunarodnoy komissii po redkim metallam pri Gosudarstvennom komitete Soveta Ministrov SSSR po koordinatsii nauchno-issledovatel'skikh rabot (for Stepanov).
 3. Rukovodite'' brigady kommunisticheskogo truda elektroliznogo tsekha, Ural'skogo alyuminiyevogo zavoda (for Petrov).
 4. Otdel tsvetnoy metallurgii Gosplana SSSR (for Baryshnikov.).
 5. Nachal'nik podotdela otdela ekonomiki i razvitiya tsvetnoy metallurgii Gosekonomsoвета SSSR (for Bugarev).
 6. Zamestitel' direktora po nauchnoy chasti Gosudarstvennogo nauchno-issledovatel'skogo instituta tsvetnykh metallov (for Lakernik).
 7. Starshiy ekspert upravleniya Gosudarstvennogo komiteta Soveta Ministrov SSSR po avtomatizatsii i mashinostroyeniyu (for Sheyn).
 8. Glavnyy spetsialist otdela tsvetnoy metallurgii Gosplana SSSR (for Molchanov).
- (Communism)

USSR/Cultivated Plants. Potatoes. Vegetables, Melons.

M

Abs Jour: Ref Zhur-Biol., No 5, 1958, 20354.

Author : A.V. Alpat'yev, O.I. Yerina, G.B. Bugarevich

Inst : Not given.

Title : The Principles of Selecting the Initial Stock for Fast-Ripening Tomatoes by the Hybridization Method. (Printsipy podbora iskhodnogo materiala dlya vyvedeniya skorospelykh pomidorov metodom gibridizatsii).

Orig Pub: Dokl. VASKhNIL, 1957, No 6, 3-9.

Abstract: The results of year-long tests in intervarietal hybridization show that F_1 is usually distinguished by fast-ripening and uniformity in morphological characteristics and its vegetative period. The variation factor in F_2 is several times higher than in its parents. The selection of parents according to the length of the individual periods

Card : 1/2

RUSINOV, A.A.; VOSKOBOYNIKOV, V.N.; DUBINKO, T.P.; ILYUSHIN, V.I.;
VRUBLEVSKAYA, F.L.; BUNCHUK, M.I.; RYABEN'KIY, L.M.; MARGOLIN,
D.I.; SAZYKINA, K.V., kand.ekon.nauk.; BUGAREVICH, V.S.;
KUPTSOVA, V.A.; KALINOVSKIY, M.D.; MELESHKEVICH, O.A.;
TYABUT, M.A., red.; LAZARCHIK, K., red.; KALECHITS, G.,
tekh.n.red.

[Reference book on the establishment of work norms on collective farms] Spravochnik po normirovaniu truda v kolkhosakh. Minsk, Gos.izd-vo BSSR, Red.sel'khoz.lit-ry, 1960. 151 p.

(MIRA 14:3)

1. Akademiya sel'skokhozyaystvennykh nauk BSSR. Institut ekonomiki. 2. Institut ekonomiki i organizatsii sel'skokhozyaystvennogo proizvodstva Akademii sel'skokhozyaystvennykh nauk BSSR (for Voskoboynikov, Dubinko, Ilyushin, Vrublevakaya, Bunchuk, Bugarevich, Kuptsova, Kalinovskiy). 3. Starshiy inspektor Upravleniya po orgkolhoznyim delam Ministerstva sel'skogo khozyaystva BSSR (for Meleshkevich).

(Agriculture---Production standards)

LAPTEV, I.D.; TERYAYEVA, A.P.; SAPIL'NIKOV, N.G.; CHENTSOV, N.Ye.
 [deceased]; SEPP, Ya.P.; SUVOROVA, L.I.; ZASLAVSKAYA, T.I.;
 GREKOVA, A.I.; TONKOVICH, V.S.; IBRAGIMOV, A.I.; KOTENUBA,
 T.Ya.; KURYLEV, V.M.; KOVALEVSKIY, G.T.; KALNINS, A.A.
 [Kalins, A.]; SIDOROVA, M.I.; MALISHAUSKAS, V.I.
 [Malisauskas, V.]; PASECHNIK, P.P.; BUGAREVICH, V.S.;
 KARNAUKHOVA, Ye.I.; AREF'YEV, T.I.; KAZAKOV, I.G.;
 GUMOVSKIY, I.A.; SEMIN, S.I., red.; LINKUNA, N.I., red.;
 TSITKO, I.A., red.; VOLKOVA, V.V., tekhn. red.

[Material incentives for developing the collective farm produc-
 tion] Material'noe stimulirovanie razvitiia kolkhoznogo pro-
 izvodstva. Moskva, Izd-vo AN SSSR, 1963. 326 p. (MIRA 16:12)

1. Akademiya nauk SSSR. Institut ekonomiki. 2. Institut eko-
 nomiki AN SSSR (for Laptev, Teryayeva, Suvorova, Zaslavskaya,
 Sidorova, Karnaukhova). 3. Sredneaziatskiy gosudarstvennyy uni-
 versitet (for Sapil'nikov). 4. Komi filial AN SSSR (for Chentsov).
 5. Institut ekonomiki AN Estonskoy SSR (for Sepp). 6. Bashkirskiy
 filial AN SSSR (for Grekova). 7. Institut ekonomiki AN Belo-
 russkoy SSR (for Tonkovich, Kovalevskiy). 8. Institut ekonomiki
 AN Uzbekskoy SSR (for Ibragimov)

(Continued on next card)

LAPTEV, I.D.--- (continued). Card 2.

9. Institut ekonomiki AN Ukr.SSR (for Kotsyuba, Pasechnik).
10. Belorusskiy institut ekonomiki i organizatsii sel'sko-khozyaystvennogo proizvodstva (for Bugarevich). 11. Vsesoyuznyy institut sakharney svekly (for Aref'yev). 12. Institut ekonomiki AN Kirgizskoy SSR (for Kazakov). 13. Rabotnik Tsentral'nogo Komiteta Kommunisticheskoy partii Moldavskoy SSR (for Gurovskiy). 14. Kuybyshevskiy planovyy institut (for Kurylev).
(Collective farms--Income distribution)

KACHURO, I.M.; BUGAREVICH, V.S.; GORYACHKO, N.I.; LINEVICH, A.V.;
LUK'YANOV, M.T.; TORKAYLO, I., red.

[Basic and supplemental wages on collective farms] Osnov-
naia i dopolnitel'naia oplata truda v kolkhozakh. Minsk,
Izd-vo "Urozhai," 1964. 57 p. (MIRA 17:6)

1. Belorusskiy nauchno-issledovatel'skiy institut ekonomiki
i organizatsii sel'skokhozyaystvennogo proizvodstva.
2. Chlen-korrespondent AN Bel.SSR (for all except Torkaylo).

PERISIC, Z.; BUGARINOVIC, D.; SUVAKOVIC, V.; GROZA, A.; MILOSEVIC, M.

Water-borne epidemic of typhoid in Pristina in 1962. Vojnosanit.
pregl. 21 no.6:373-379 Je '64

1. Klinika za infektivne bolesti, Beograd; Opsta bolnica,
Pristina i Higijenski institut SR Srbije, Beograd.

BUGARINOVIC, F.

"The refractory industry in Serbia and its prospects in connection with the availability of Serbian raw materials." p. 331. (Priroda, Vol. 18, no. 6/7, 1953. Zagreb.)

SO: Monthly List of East European Accessions, Vol. 3, no. 3, March 1954, Library of Congress.
Uncl.

RUMANIA

BUGARIU, P., Veterinarian, of the Health-Veterinary Circumscription (Circumscriptia Sanitar-Veterinara), Chizatau, Banat Regiune.

"Combatting of Sterility in Cows in the Chizatau Circumscription of Banat Regiune."

Bucharest, Revista de Zootehnie si Medicina Veterinara, Vol 13, No 8, Aug 63, pp 102-105.

Abstract [Author's English summary modified]: Reports the good results obtained with artificial insemination as compared to natural breeding. In the years 1961 and 1962, it was possible to eliminate both morbidity and mortality in the Circumscription through attention to zoo-hygienic and feeding factors and proper care of the animals, particularly during gestation, after calving, and when the calves are newborn. Includes 2 tables.

BUGARSKI, M.
SURNAME (I. C. S.); Given Names

Country: Yugoslavia

Academic Degrees:

Affiliation:

Source: Belgrade, Veterinarski glasnik, No 10, 1961, pp 799-860.

Data: "Veterinary Services of Yugoslavia in 1960."

Editors:

MIHAJLOVIC, S., Dr., Director of the Federal Administration for Veterinary
Affairs (Director Savezne uprave za poslove veterinarstva);
BUGARSKI, M., Executive Head (nacelnik);

VIDRIC, K., Dr.
BABUDER, C., Dr.
POPOVIC, M.
JAKSIC, D.
PETROVIC, D.
ILIC, V.
PIRUZE, P.

Federal Veterinary Inspectors and
Arbitrators (Savezni veterinarski
inspektori i referenti)

YUGOSLAVIA

M. BUGARSKI [Affiliation not given.]

"Federal Council Meeting on Prevention and Control of Hog Cholera and Newcastle Disease."

Belgrade, Veterinarski Glasnik, Vol 17, No 4, 1963; pp 389-391.

Abstract: Discussion of names, governmental units and problems; thirteen resolutions regarding the necessary steps to be taken to eliminate the two diseases are given verbatim.

1/1

- END -

1588, 2434
CSO: 2000-N

GUZINA, Djoko; MILOSAVLJEVIC, Aleksije; PANSELIC, Mladomir; BUGARSKI, Miodrag.

Studies on the blood, erythrocytes, plasma volume and survival of erythrocytes in splenomegalic forms of liver cirrosis. Srpski ann. celok. lek. 92 no 9:869-877 S'64.

1. Onkološki institut Medicinskog fakulteta Univerziteta u Beogradu (Direktor: prof. dr Marija Visnjic-Frajnd).

MILOSAVLJEVIC, Aleksije; GUZINA, Doka; PANTELIC, Mladomir;
BUGARSKI, Miodrag; NESKOVIC, Blagoje

Measurement of blood volume in polycythemia. Srpski arh. celok.
lek. 90 no.4:421-428 Ap '62.

1. Onkoloski institut Medicinskog fakulteta Univerziteta u
Beogradu Upravnik: prof. dr. Marija Vianic-Frajnd.

MILOSAVLJEVIC, Aleksije, dr.; GUZINA, Djoko; BUGARSKI, Miodrag; PANTELIC, Mladomir.

Anemic and latent hemolytic syndrome in 2 cases of splenomegalic lymphogranulomatosis. Srpski arh. celok. lek. 92 no.10:1003-1008
O '64

1. Onkološki institut Medicinskog fakulteta Univerziteta u Beogradu (Direktor: prof. dr. Marija Visnjic-Frajnd); Interno odeljenje za primenu radioaktivnih izotopa (Nacelnik: dr. Aleksije Milosavljevic).

GUZINA, D.; PANTELIC, M.; MILOSAVLJEVIC, A.; BUGARSKI, M.; ZIVKOVIC, S.;
JONAS, S.; NESKOVIC, B.

Use of radioactive iodine in the treatment of hyperthyroidism. Prim.
radioaktiv. izotop. 2 no.3:69-72 D '61.

1. Onkoloski institut Medicinskog fakulteta u Beogradu Upravnik: Prof.
dr. Marija Visnjic-Frajnd.

(IODINE ISOTOPES THERAPEUTIC) (HYPERTHYROIDISM)

x

MILOSAVLJEVIC, A.; NESKOVIC, B.; BUGARSKI, M.; PANTELIC, M.; GUZINA, D.

Irradiation of myelofibrosis with radioactive iron.
Bul sc Youg 7 no.1/2:12 F-Ap '62.

1. Onkoloski institut Medicinskog fakulteta, Beograd.

*

MILOSAVLJEVIC, Aleksije; PANTELIC, Mladomir; BUGARSKI, Miodrag;
GUZICKA, Deke

Criteria for the evaluation of congestive spleen diseases
using radioactive chromium (Cr-51). Srpski arh. celok. lek.
92 no.12:1165-1174 D '64.

1. Onkoloski institut Medicinskog fakulteta Univerziteta u
Beogradu (Direktor: prof. dr. Marija Visnjic-Frajnd) Interno
oddeljenje za primenu radioaktivnih izotopa (Nacelnik: dr.
Aleksije Milosavljevic).

BOZOVIC, Borislav; ROSIC, Dragoslav; BUGARSKI, Olga

Determination of Ph in blood, exudate and transudate.
Srpski arh. celok. lek. 84 no.12:1387-1392 Dec 56.

1. III i IV Interna klinika Medicinskog fakulteta u Beogradu
Upravnik: Radivoje Berovic. Hemiski institut Medicinskog
fakulteta u Beogradu, Upravnik: Pavle Trpinac.

(HYDROGEN ION CONCENTRATION, determ.
in blood, exudates & transudates (Ser))
(EXUDATES AND TRANSUDATES,
determ. of hydrogen-ion concentration (Ser))

BURIJAN, Jovan; DUGANDZIC, Slobodanka; BUGARSKI, Olga; RODIC, Sofija;
JEVTIC, Zivojin

Use of electrophoresis in the examination of gastric juice. Srpski
arh. celok. lek. 88 no.11:1105-1110 N '60.

1. Interna klinika A Medicinskog fakulteta Univerziteta u Beogradu.
Upravnik: prof. dr Branisla Stanojevic. Hemijski institut Medicinskog
fakulteta Univerziteta u Beogradu. Upravnik: prof. dr Pavle Trpinac.

(GASTRIC JUICE chem)

SULOVIC, Vojin; BUGARSKI, Olga; RCTOVIC, Bozica; TRPINAC, Pavle; SKURINA, Tatjana

Electrophoresis of serum proteins in early and late pregnancy toxemias. Srpski arh. celok. lek. 89 no.12:1435-1442 D '61.

1. Hemijski institut Medicinskog fakulteta Univerziteta u Beogradu
Upravnik: prof. dr Pavle Trpinac Ginekološko-akuserska klinika Medicinskog fakulteta Univerziteta u Beogradu Upravnik: prof. dr Bosiljka Milosevic.

(PREGNANCY TOXEMIAS blood)
(BLOOD PROTEINS impregn)
(ELECTROPHORESIS)

BOJANOVIC, J.; ROTOVIC, B.; BUGARSKI, O.; ROSIC, D.

Effect of insulin on protein, lipid and carbohydrate metabolism.
IV. Distribution of serum protein fractions in insulin shock in
schizophrenic patients with metabolic disorders. Acta med. iugoslavl.
14 no.4:420-432 '60.

1. Hemiski institut Medicinskog fakulteta u Beogradu.
(BLOOD PROTEINS) (SHOCK THERAPY INSULIN blood)
(SCHIZOPHRENIA ther)

BUGARSKI, V.
SURNAME (in caps): Given Names

Country: Yugoslavia

Academic Degrees: [not given]

Affiliation:

Source: Belgrade, Veterinarski glasnik, No 6, 1961, pp 505-510.

Data: "Contribution to the Treatment of Fasciolosis with Oral and Subcutaneous Application of Carbone Tetrachloride."

Authors:

BUGARSKI, V., [presumed affil.] Veterinary Center (Veterinarski zavod), Zemun.
MLADENOVIC, Z., [presumed affil.] Veterinary Center, Zemun.
ZAKULA, S., [presumed affil.] Veterinary Center, Zemun.
SOKOLIC, A., [presumed affil.] Institute for Invasion Diseases of the Faculty of Veterinary Medicine (Institut za invazivne bolesti Veterinarskog fakulteta) Belgrade.
NEVENIC, V., [presumed affil.] Institute for Invasion Diseases of the Faculty of Veterinary Medicine, Belgrade.

BUGARSKI, V.

SURNAME (in caps); Given Names

Country: Yugoslavia

Academic Degrees: [not given]

Affiliation:

Source: Belgrade, Veterinarski glasnik, No 7, 1961, pp 587-592.

Data: "Hexaphen Efficiency in the Prevention of Fascioliasis and Gastro-Enteric Strongylosis in Sheep."

Authors:

MLADENOVIC, Z., Veterinary Center (Veterinarski zavod), Zemun

ZAKULA, S., affil. not given

BUGARSKI, V., affil. not given

NEVENIC, V., Institute for Invasion Diseases of the Faculty of Veterinary Medicine (Institut za invazione bolesti Veterinarskog fakulteta), Belgrade

BUGAY, A. A., KOSENKO, V. Ye. and MISELYUK, E. G.

Diffusion and Solubility of Iron in Germanium. Zh. tekhn. Fiz., Vol. 27, No. 1, pp. 207-9 (1957)

The test specimens were cut out of monocrystal ingots of Ge in the form of plane-parallel disks 20 mm dia. and 3-6 mm thick. They were electroplated on both plane surfaces with Fe labelled with Fe^{59} . After heating in a high vacuum for a long time, the Fe excess was ground off, and the concentration of Fe in Ge was determined by radioactive counting. It was found that, within the range 750-940° C, the limiting solubility of Fe in Ge varies within 5×10^{14} - 1.5×10^{15} cm⁻³, a diffuse maximum occurring at about 850°C. The coefficients of diffusion of Fe in Ge, as determined by the method of Seitz and Laird, varied from 1×10^{-5} cm²/sec at 775°C to 4.3×10^{-6} cm²/sec at 930°C. The energy of activation, calculated from these coefficient values, amounts to $E \approx 25000$ cal/mole = 1.1 eV.

PA - 1943

CARD 1 / 2

SUBJECT
AUTHOR
TITLE
PERIODICAL

USSR / PHYSICS
BUGAJ, A.A., KOSENKO, V.E., MISELJUK, E.G.
The Diffusion and the Solubility of Iron in Germanium.
Zurn.techn.fis.27, fasc.1, 210-211 (1957)
Issued: 2 / 1957

For the experiments concerning the determination of the diffusion coefficient and the solubility of iron in germanium which were discussed here, iron with the radioactive isotope Fe^{59} was used. For the purpose of counting γ -rays a scintillation counter with a photomultiplier FEU-19 and with a NaJ-crystal were constructed. Pulses were transferred to a counting scheme and then to an electromechanic counter. Samples were cut out of monocrystalline germanium with the specific resistance $\rho \geq 40$ ohm.cm in form of plane-parallel disks of 20 mm diameter and from 3 to 6 mm thickness. For the determination of the utmost solubility of iron in germanium the germanium samples were electrolytically covered with iron on their flat sides, and after a sufficiently long diffusion annealing (by which uniform saturation of the germanium with iron is warranted), the excess iron was ground away from the samples. The concentration of iron in germanium was determined by radioactive counting (by comparison with the counting result obtained in the case of an exactly weighed radioactive iron preparation).

A graph illustrates the curve of the utmost solubility of iron in germanium in the temperature interval of from 750 to 940° C. As seen from the graph, the utmost solubility of iron in germanium changes at these temperatures from $5 \cdot 10^{14}$

Žurn.techn.fis.27,fasc.1,210-211 (1957)
to 1,5.10¹⁵ cm⁻³

CARD 2 / 2

PA - 1943

on which occasion there is a weak marked maximum at 850° C. The coefficient of the diffusion of iron in germanium was determined by the method developed by W.SEITZ and J.G.LAIRD, Zs.f.Metallkunde, 24, 193 (1932) in consideration of the finity of the sample. The method chosen here requires the constancy of the concentration limit c_0 which, in the case of the investigation, was found to be the utmost solubility of iron in germanium at a given temperature. A table contains the values of the diffusion coefficients of iron in germanium at temperatures of from 775 to 930° C. The activation energies E and D of diffusion in the formula for the diffusion coefficient $D = D_0 e^{-E/RT}$ amounted to $E = 25\ 000\ \text{cal/mol} = 1,1\ \text{eV}$ ($D_0 = 0,13$). The high velocity and the low activation energy of diffusion speak in favor of the assumption that the iron diffuses in the lattice of the germanium along the spaces between the nodes. Thus, iron behaves in germanium with respect to the activation energy of diffusion, the amount of the diffusion coefficient, the solubility as also with respect to the amount of the segregation coefficient, in a similar manner as copper, nickel, lithium, and partly also gold. However, iron differs considerably from all other invested admixtures in germanium with respect to the aforementioned signs.

INSTITUTION: Physical Institute of the Academy of Science of the Ukrainian SSR, Kiev.

U.S.S.R. A. H.

AUTHORS

TITLE

PERIODICAL

ABSTRACT

Bugay, A.A., Kosenko V.Ye., Miselyuk Ye.G.,
Diffusion and Solubility of Silver in Germanium. 57-8-6/36
(Diffuziya i rastvorimost' serebra v germanii - Russian)
Zhurnal Tekhn.Fiz., 1957, Vol 27, Nr 8, pp 1671-1675 (U.S.S.R.)

The experiments were carried out for the purpose of supplementing the data on the admixtures in Germanium and for the purpose of a comparison between the experimental results and the diffusion theory. The investigation of the diffusion and the solubility of silver in Germanium was carried out according to the radioactive method using the silver isotope Ag^{110} . The experiments showed that the maximum solubility is reached at $875^{\circ}C$ and that it amounts to 1.10^{15} at/cbm. The authors show that, as regards the magnitude of the diffusion coefficient, silver takes the place between copper and gold, being much nearer to copper, nickel and iron. Therefore we can assume that the diffusion process of silver is the same as with these other elements. The comparison between the experimental results and the diffusion theory shows a good coincidence of Li, Ag and Fe with an exactness to the constant multiplicand $\gamma = \frac{1}{25}$ (depends on the kind of lattice of the solvent). The point for Ni in the experiments happened to be situated exactly on the theoretical straight line. (3 illustrations and 2 Slavic references).

~~6-2~~

Kiev Inst. of Physics AS USSR

DUGAY, A.A.

PART I BOOK EVALUATION

307/1986

Sovetskaya po poluprovodnikovym materialam. Moscow, 1957

Topnyy metallurgicheskii i fizicheskii poluprovodnikovyyi (problem in the Metallurgy and Physics of Semiconductors) Transactions of the Third Conference Moscow, Izdatel'stvo SSSR, 1957, 129 p. Errata slip inserted. 7,200 copies printed.

Sponsoring Agency: Academy of Sciences, Institute Metallurgicheskii Izdatel'stvo SSSR, Moscow, 1957, 129 p. Errata slip inserted. 7,200 copies printed.

Abstract: This collection is intended for technical and scientific personnel concerned with the investigation and production of semiconductor materials. It may also be used by students in schools of metallurgy.

CONTENTS: The collection contains reports submitted at the Third Conference on Semiconductor Materials, held at the Institute of Metallurgy, Academy of Sciences, Moscow, in May 1957. The reports deal with the problems of obtaining and investigating semiconductors, silicon, and semiconductor compounds. The collection was first edited by D. A. Petrov, Doctor of Technical Sciences. References accompany most of the reports.

Galaktionov, V. V. On the Problem of the Role of Some Factors in the Growth Process of Single Crystals from a Melt.

Polyakov, E. B. Investigation of Role of Some Factors in the Growth Process of Single Crystals from a Melt.

Abstract: Investigation of Role of Some Factors in the Growth Process of Single Crystals from a Melt.

Abstract: Investigation of Role of Some Factors in the Growth Process of Single Crystals from a Melt.

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Abstract: Investigation of Role of Some Factors in the Growth Process of Single Crystals from a Melt.

Abstract: Investigation of Role of Some Factors in the Growth Process of Single Crystals from a Melt.

9.4160

S/058/62/000/004/059/160
A058/A101

AUTHORS: Bugay, A. A., Miselyuk, Ye. G.

TITLE: Large-area germanium phototubes with diffusion p-n junctions

PERIODICAL: Referativnyy zhurnal, Fizika, no. 4, 1962, 22-23, abstract 4G186
(V sb. "Fotoelektr. i optich. yavleniya v poluprovodnikakh". Kiev,
AN USSR, 1959, 367-370)

TEXT: The authors describe the preparation methods and the characteristics of germanium phototubes in which p-n junctions are formed through impurity diffusion out of the vapor phase. Such transitions are sufficiently homogeneous (in case of homogeneity of the starting material) and can be set up at a sufficiently low depth from the surface of the specimen to make it possible to decrease the sluggishness of the phototube. B

[Abstracter's note: Complete translation]

Card 1/1

ACCESSION NR: AT4016327

S/0000/62/000/000/0432/0436

AUTHOR: Bugay, A. A.; Ruban, M. A.; Shatalov, A. A.

TITLE: Electron paramagnetic resonance of some color centers in alkali halide crystals

SOURCE: Vses. soveshch. po fiz. shchelochnogaloidn. kristallov. 2d, Riga, 1961. Trudy*. Fiz. shchelochnogaloidn, kristallov (Physics of alkali halide crystals). Riga, 1962, 432-436

TOPIC TAGS: alkali halide, alkali halide crystal, color center, electron paramagnetic resonance, alkali halide color center, F center, super fine cleavage

ABSTRACT: There is a generally accepted view that an F_2 -center consists of two adjacent halogen vacancies with two captured electrons. If true, this should result in the absence of electron paramagnetic resonance. In an effort to verify this view, tests were performed with KCl crystals pre-exposed to light at 270-300C to develop F_2 -centers. Spectrometric observations at a frequency modulation of 425 kcps with the use of a N_{102} resonator revealed no resonance in the crystals, thus corroborating the above concept, while control KCl samples containing F-centers gave a strong positive response. Examination of NaCl crystals after thermal treatment, which is known to cause coagulation and produce colloidal alkali metals, revealed an electron paramagnetic resonance

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AUTHOR:

Bugay, A. A.

TITLE:

The application of high-frequency modulation to the study of transmission effects for EPR-lines exhibiting nonuniform broadening

PERIODICAL: Fizika tverdogo tela, v. 4, no. 11, 1962, 3027 - 3034

TEXT: By reference to a classical vector model (F. Bloch, Phys. Rev. 70, 460, 1946) a qualitative analysis is made of the transmission effects affecting the observation of nonuniformly broadened EPR-signals, particular stress being laid on dispersion effects. Similar investigations had hitherto been conducted only for devices with low-frequency magnetic field modulation (up to 1 kc) (e.g., J. S. Hyde, Phys. Rev. 119, 1483, 1960), whereas here the range up to 1 Mc is considered. For the quantities determining the shape of an EPR line (the times T_1 , T_2 , $\frac{1}{\gamma \Delta H}$, $\frac{1}{\gamma H_1}$, $\frac{1}{\gamma H_m}$, $\frac{1}{\omega_m}$, $H_1/(\frac{d}{dt})$ of fast ($H_1/\omega_m H_m \ll \sqrt{T_1 T_2}$) and adiabatic ($\omega_m H_m \ll \gamma H_1^2$) trans-

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mission of EPR signals are assumed. T_1 and T_2 are the spin-lattice and spin-spin relaxation times, γ is the gyromagnetic ratio of the electron, H_1 is the intensity of the shf magnetic field in the resonator, ω_m and H_m are the modulation frequency and modulation amplitude. At a shf power of 5-15 Mw and a resonator having the quality factor of 4000, $H_1 \approx 0.2$ oe, $\omega_m = 2\pi 500$ kc, $H_m = 1$ oe, the value of $\omega_m H_m = 3 \cdot 10^6$ and $\gamma H_1^2 \approx 10^6$. The adiabaticity is disturbed from as low a value as $H = 1$ oe. Experimentally, the transmission effects were investigated with the aid of a EPR -spectrometer and a 15-Mw klystron which served as shf generator. ω_m was 425 kc, the H_{101} resonator had a quality factor of 4000, H_m was varied between 0 and 8 oe. The measurements were made from KCl crystals whose F-centers served as paramagnetic centers. The F-center concentration was $1 \cdot 10^{18} \text{ cm}^{-3}$. The shape of the signal of the F-center dispersion changed substantially when H_m changed from 0.1 to 8 oe. At 0.1, 0.8 and 1.9 oe the signal consists of a single peak, reaching its maximum at 0.8 oe. At 3 oe a splitting begins, at 8 oe the signal consists of two low peaks which are separated by a deep minimum. At the two first-mentioned values

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AUTHOR: Bugay, A. A.

TITLE: Temperature dependence of the half-width of the e.p.r. envelopes of F-centers in alkali halide crystals

PERIODICAL: Fizika tverdogo tela, v. 5, no. 2, 1963, 693 - 694

TEXT: Though the first experimental data (e.g. Phys. Rev. 83, 657, 1951) cannot be considered reliable, the narrowing of e.p.r. lines of alkali halides on temperature drop observed has been described by theory (Vestn. LGU, 4, ser. fizika i khimiya, no. 1, 22, 1960; ZhETF, 38, 489, 1960). Moreover the experiments had disregarded an important effect not discovered till later: When KCl is illuminated by white light at room temperature a new type of paramagnetic centers forms. These centers have a very short spin-lattice relaxation time and e.p.r. line widths much lower than the F-centers. They coexist with the F-centers but show no saturation, so that when the temperature is reduced their signals grow rapidly whereas those of the F-centers remain unchanged. Now it is shown that only the centers with the short relaxation time are responsible for the temperature dependence.

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AUTHOR: Bugay, A. A.

TITLE: Temperature dependence of spin-lattice relaxation time of the F-centers in KCl crystals

PERIODICAL: Fizika tverdogo tela, v. 5, no. 3, 1963, 955-957

TEXT: In order to verify theoretical investigations of the spin-lattice relaxation mechanism (e. g. Ref. 1: Phys. Rev. 119, 1842, 1960) T_1 the spin-lattice relaxation time, was determined from passage effects observed on recording the dispersion of F-centers with an apparatus operating on h-f magnetic field modulation. $T_1(T)$ was finally determined from population differences calculated with the use of the relations:

$$n_1 = n_0 (1 - \pi^2 H_1^2 / (dH/dt)); \quad n_2 = n_1 (1 - \frac{1}{2} \pi^2 H_1^2 / (dH/dt)); \quad (n_0 - n_2) \exp(-1/T_1) = n_0 - n_1;$$

and $n_1 / (n_0 - n_1) = 2 \pi^2 H_1^2 T_1 / (dH/dt)$. n_0 is the population difference before and n_1 , after, passage through resonance; the passage rate is given by dH/dt ; n_2 is the population difference at the end of the pulse; π is the Card 1/2

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modulation period, $\tau' = 0.5 T_m - \tau$, H_m is the modulation amplitude of the magnetic field, H_1 the magnetic component of the shf field. H_1 was measured at 300, 78 and 20°K with fixed τ'/τ or fixed $n_1/(n_0 - n_1)$. KCl crystals with a concentration of 10^{17} F-centers were used as specimens. The results, plotted as $\log T_1 = f(T)$ are compared with the theoretical results of Ref. 1. The shape of the curves is similar, but the theoretical one drops more steeply at low temperatures, and continues with a flatter course (but with lower T_1 -values) than the experimental one. At 20°K $T_{1\text{theor}}$ is twice as high as $T_{1\text{exp}}$. There is 1 figure.

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